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# Test Report on Cement

| | |
|---|---|
| Project | Improvements to Road,Drain and Footpath in Devinagar Main Road and Cross Roads in Ward No.8, Kodigehalli |
| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | Sri.Pramodh M/s Karthik Enterprises |
| Location: | Devinagar Main Road |
| Sample ID | Cement |
| Date of Sample Tested | 26/10/2017 |
| Sample Supplied By | Agency |

| Sl.No. | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 12269-1987 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part-5) | 37 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part-5) | 332 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part-3) By the Le-Chatelier method | 3mm | Not More than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part-4) | 29.00% | |

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Kodigehalli Sub Division

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# TEST REPORT

| | | |
|---|---|---|
| Clients | Bruhat Bangalore Mahanagara Palike | |
| Project | Improvements to Road,Drain and Footpath in Devinagar Main Road and Cross Roads in Ward No.8, Kodigehalli | |
| Consultants | TEJUS CONSULTANTS | |
| Contractor | Sri.Pramodh M/s Karthik Enterprises | |
| Total Weight: | 10000 | gms |

## SIEVE ANALYSIS

| | | | | | |
|---|---|---|---|---|---|
| Type of Material | 12.5 mm down size | | Proposed Use | For Drain work | |
| Sample Location | At Plant | | Date of Sampling | 26/10/2017 | |
| | | | Date of Testing | 26/10/2017 | |
| IS Sieve Size (in mm) | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing |
| 20.0 | 0 | 0 | 0 | 100 | 100 |
| 12.5 | 589 | 589 | 5.89 | 94.11 | 90-100 |
| 10.0 | 3114 | 3703 | 37.03 | 62.97 | 40-85 |
| 4.75 | 6138 | 9841 | 98.41 | 1.59 | 0-10 |
| Pan | 159 | 10000 | | | |
| | | | | | |

| | |
|---|---|
| Remarks : | Satisfactory / Not Satisfactory |

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# TEST REPORT

| | | |
|---|---|---|
| Clients | Bruhat Bangalore Mahanagara Palike | |
| Project | Improvements to Road,Drain and Footpath in Devinagar Main Road and Cross Roads in Ward No.8, Kodigehalli | |
| Consultants | TEJUS CONSULTANTS | |
| Contractor | Sri.Pramodh M/s Karthik Enterprises | |
| Total Weight: | 9500 | gms |

## SIEVE ANALYSIS

| | | | | | |
|---|---|---|---|---|---|
| Type of Material | 12.5 mm down size | | Proposed Use | For Drain work | |
| Sample Location | At Plant | | Date of Sampling | 26/10/2017 | |
| | | | Date of Testing | 26/10/2017 | |
| IS Sieve Size (in mm) | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing |
| 20.0 | 0 | 0 | 0 | 100 | 100 |
| 12.5 | 587 | 587 | 6.18 | 93.82 | 90-100 |
| 10.0 | 2849 | 3436 | 36.17 | 63.83 | 40-85 |
| 4.75 | 5678 | 9114 | 95.94 | 4.06 | 0-10 |
| Pan | 386 | 9500 | | | |
| | | | | | |

Remarks : Satisfactory / Not Satisfactory

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# TEST REPORT

| | | | | | |
|---|---|---|---|---|---|
| Clients | Bruhat Bangalore Mahanagara Palike | | | | |
| Project | Improvements to Road,Drain and Footpath in Devinagar Main Road and Cross Roads in Ward No.8, Kodigehalli | | | | |
| Consultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore | | | | |
| Contractor | Sri.Pramodh M/s Karthik Enterprises | | | | |
| Total Weight: | 10000 | gms | | | |

## SIEVE ANALYSIS

| | | | | | |
|---|---|---|---|---|---|
| Type of Material | 20 mm down size | | Proposed Use | For Drain | |
| Sample Location | At Plant | | Date of Sampling | 26/10/2017 | |
| | | | Date of Testing | 26/10/2017 | |
| IS Sieve Size | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing |
| 40.00 mm | 0 | 0 | 0 | 100 | 100 |
| 20.00 mm | 271 | 271 | 2.71 | 97.29 | 95 - 100 |
| 10.00 mm | 4787 | 5058 | 50.58 | 49.42 | 25 - 55 |
| 4.75 mm | 4590 | 9648 | 96.48 | 3.52 | 0 - 10 |
| Pan | 352 | 10000 | | | |
| | | | | | |

Remarks : Satisfactory / Not Satisfactory

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# TEST REPORT

| | | |
|---|---|---|
| Clients | Bruhat Bangalore Mahanagara Palike | |
| Project | Improvements to Road,Drain and Footpath in Devinagar Main Road and Cross Roads in Ward No.8, Kodigehalli | |
| Consultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore | |
| Contractor | Sri.Pramodh M/s Karthik Enterprises | |
| Total Weight: | 10000 | gms |

## SIEVE ANALYSIS

| | | | | | |
|---|---|---|---|---|---|
| Type of Material | 20 mm down size | | Proposed Use | For Drain | |
| Sample Location | At Plant | | Date of Sampling | 26/10/2017 | |
| | | | Date of Testing | 26/10/2017 | |
| IS Sieve Size | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing |
| 40.00 mm | 0 | 0 | 0 | 100 | 100 |
| 20.00 mm | 362 | 362 | 3.62 | 96.38 | 95 - 100 |
| 10.00 mm | 4910 | 5272 | 52.72 | 47.28 | 25 - 55 |
| 4.75 mm | 4520 | 9792 | 97.92 | 2.08 | 0 - 10 |
| Pan | 208 | 10000 | | | |
| | | | | | |

Remarks : Satisfactory / Not Satisfactory

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# TEST REPORT

| | |
|---|---|
| Clients | Bruhat Bangalore Mahanagara Palike |
| Project | Improvements to Road,Drain and Footpath in Devinagar Main Road and Cross Roads in Ward No.8, Kodigehalli |
| Consultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor | Sri.Pramodh M/s Karthik Enterprises |
| Total Weight in gm: | 3000 |

## SIEVE ANALYSIS

| | | | | | |
|---|---|---|---|---|---|
| Type of Material | 40 mm down size | | | Proposed Use | Drain |
| Sample Location | Plant | | | Date of Sampling | 26/10/2017 |
| | | | | Date of Testing | 26/10/2017 |
| IS Sieve Size | Weight Retained in gm | Cum. Weight Retained in gm | Cumulative Weight Retained in % | Cumulative Weight Passing in % | Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size |
| 80.00mm | 0 | 0 | 0.00 | 100.00 | 100 |
| 63.00mm | 0 | 0 | 0.00 | 100.00 | - |
| 40.00mm | 80 | 80 | 2.67 | 97.33 | 95-100 |
| 20.00mm | 1560 | 1640 | 54.67 | 45.33 | 30-70 |
| 10.00mm | 781 | 2421 | 80.70 | 19.30 | 10-35 |
| 4.75mm | 470 | 2891 | 96.37 | 3.63 | 0-5 |
| Pan | 109 | 3000 | 100.00 | 0.00 | |

Remarks : Satisfactory / Not Satisfactory

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# TEST REPORT

| | |
|---|---|
| lients | BRUHAT BENGALORE MAHANAGARA PALIKE |
| roject | Improvements to Road,Drain and Footpath in Devinagar Main Road and Cross Roads in Ward No.8, Kodigehalli |
| onsultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| ontractor | Sri.Pramodh M/s Karthik Enterprises |

## SPECIFIC GRAVITY AND WATER ABSORPTION

### FINE AGGREGATE (IS-2386-PART-3)

| | | | |
|---|---|---|---|
| ype of Material | M sand | Proposed Use | Drain |
| ocation/Source | Devinagar Main Road | Date of Sampling | 26/10/2017 |
| eriod of Soaking | 24 hours | Date of Testing | 26/10/2017 |

| iL No. | Test Property | TRIAL - 1 | TRIAL - 2 | TRIAL - 3 | Average |
|---|---|---|---|---|---|
| A | Weight of sturated surface dry sample gm. | 644 | 639 | 641 | |
| B | Weight of oven - dry sample gm. | 635 | 629 | 632 | |
| C | Weight of Pycnometer Filled with water gm | 1275 | 1275 | 1275 | |
| D | Weight of Pycnometer + sample + water gm | 1682 | 1679 | 1678 | |
| E | Bulk specific gravity $\frac{B}{(C+A-D)}$ | 2.679 | 2.677 | 2.655 | 2.670 |
| G | Absorption (%) $\frac{(A-B)*100}{B}$ | 1.417 | 1.590 | 1.424 | 1.477 |

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# TEST REPORT

| | |
|---|---|
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| Project | Improvements to Road,Drain and Footpath in Devinagar Main Road and Cross Roads in Ward No.8, Kodigehalli |
| Consultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor | |

## SIEVE ANALYSIS

| | | | | |
|---|---|---|---|---|
| Total Weight: | 3000 | gms | | |
| Type of Material | M sand | Proposed Use | Drain | |
| Sample Location | Plant | Date of Sampling | 26/10/2017 | |
| | | Date of Testing | 26/10/2017 | |

| IS Sieve Size | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing (Zone-II) |
|---|---|---|---|---|---|
| 10.00 mm | 0 | 0 | 0 | 100.00 | 100 |
| 4.75 mm | 266 | 266 | 8.87 | 91.13 | 90 - 100 |
| 2.36 mm | 286 | 552 | 18.40 | 81.60 | 75 - 100 |
| 1.18 mm | 437 | 989 | 32.97 | 67.03 | 55 - 90 |
| 0.600 mm | 527 | 1516 | 50.53 | 49.47 | 35 -59 |
| 0.300 mm | 619 | 2135 | 71.17 | 28.83 | 8-30 |
| 0.150 mm | 748 | 2883 | 96.10 | 3.90 | 0 - 10 |
| Pan | 125 | 3008 | | | - |
| | | | | | |

Remarks : Satisfactory / Not Satisfactory

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# TEST REPORT

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|---|---|
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| oject | Improvements to Road,Drain and Footpath in Devinagar Main Road and Cross Roads in Ward No.8, Kodigehalli |
| nsultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| ntractor | |

## SPECIFIC GRAVITY AND WATER ABSORPTION

### FINE AGGREGATE (IS-2386-PART-3)

| | | | |
|---|---|---|---|
| ype of Material | M sand | Proposed Use | Drain |
| cation/Source | Devinagar Main Road | Date of Sampling | 26/10/2017 |
| riod of Soaking | 24 hours | Date of Testing | 26/10/2017 |

| L No. | Test Property | TRIAL - 1 | TRIAL - 2 | TRIAL - 3 | Average |
|---|---|---|---|---|---|
| A | Weight of sturated surface dry sample gm. | 645 | 640 | 645 | |
| B | Weight of oven - dry sample gm. | 637 | 630 | 634 | |
| C | Weight of Pycnometer Filled with water gm | 1275 | 1275 | 1275 | |
| D | Weight of Pycnometer + sample + water gm | 1682 | 1679 | 1680 | |
| E | Bulk specific gravity $\frac{B}{(C+A-D)}$ | 2.676 | 2.669 | 2.642 | 2.663 |
| G | Absorption (%) $\frac{(A-B)*100}{B}$ | 1.256 | 1.587 | 1.735 | 1.526 |

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# TEST REPORT

| | |
|---|---|
| Clients | BRUHAT BENGALORE MAHANAGARA PALIKE |
| Project | Improvements to Road,Drain and Footpath in Devinagar Main Road and Cross Roads in Ward No.8, Kodigehalli |
| Consultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor | |

## SIEVE ANALYSIS

| | | | | | |
|---|---|---|---|---|---|
| Total Weight: | 3000 gms | | | | |
| Type of Material | M sand | | Proposed Use | Drain | |
| Sample Location | Plant | | Date of Sampling | 26/10/2017 | |
| | | | Date of Testing | 26/10/2017 | |
| IS Sieve Size | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing (Zone-II) |
| 10.00 mm | 0 | 0 | 0 | 100.00 | 100 |
| 4.75 mm | 267 | 267 | 8.90 | 91.10 | 90 - 100 |
| 2.36 mm | 287 | 554 | 18.47 | 81.53 | 75 - 100 |
| 1.18 mm | 438 | 992 | 33.07 | 66.93 | 55 - 90 |
| 0.600 mm | 529 | 1521 | 50.70 | 49.30 | 35 -59 |
| 0.300 mm | 622 | 2143 | 71.43 | 28.57 | 8-30 |
| 0.150 mm | 747 | 2890 | 96.33 | 3.67 | 0 - 10 |
| Pan | 125 | 3015 | | | - |
| | | | | | |
| Remarks : | Satisfactory / Not Satisfactory | | | | |

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## Test report on Compressive strength of concrete cubes

| | |
|---|---|
| Project | Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli |
| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | Sri.Pramodh M/s Karthik Enterprises |
| Location: | LKR Nagar Main Road |
| Grade of concrete: | M20 |
| Size of cube: | 150x150x150 mm |
| Reference IS code: | IS:516-1959 |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 08/11/17 | 14/11/17 | 7 days | 8.175 | 22500 | 301 | 13.38 | 13.42 |
| 2 | 08/11/17 | 14/11/17 | 7 days | 8.185 | 22500 | 302 | 13.42 | |
| 3 | 08/11/17 | 14/11/17 | 7 days | 8.180 | 22500 | 303 | 13.47 | |

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## Test report on Compressive strength of concrete cubes

| | |
|---|---|
| Project | Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli |
| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | Sri.Pramodh M/s Karthik Enterprises |
| Location: | LKR Nagar Main Road |
| Grade of concrete: | M20 |
| Size of cube: | 150x150x150 mm |
| Reference IS code: | IS:516-1959 |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 08/11/17 | 05/12/17 | 28 days | 8.265 | 22500 | 455 | 20.22 | 20.18 |
| 2 | 08/11/17 | 05/12/17 | 28 days | 8.300 | 22500 | 454 | 20.18 | |
| 3 | 08/11/17 | 05/12/17 | 28 days | 8.275 | 22500 | 453 | 20.13 | |

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## Test report on Compressive strength of concrete cubes

| | |
|---|---|
| Project | Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli |
| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | Sri.Pramodh M/s Karthik Enterprises |
| Location: | LKR Nagar Main Road |
| Grade of concrete: | M20 |
| Size of cube: | 150x150x150 mm |
| Reference IS code: | IS:516-1959 |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 08/11/17 | 14/11/17 | 7 days | 8.200 | 22500 | 299 | 13.29 | 13.21 |
| 2 | 08/11/17 | 14/11/17 | 7 days | 8.180 | 22500 | 297 | 13.20 | |
| 3 | 08/11/17 | 14/11/17 | 7 days | 8.170 | 22500 | 296 | 13.16 | |

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|---|---|
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| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | Sri.Pramodh M/s Karthik Enterprises |
| Location: | LKR Nagar Main Road |
| Grade of concrete: | M20 |
| Size of cube: | 150x150x150 mm |
| Reference IS code: | IS:516-1959 |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 08/11/17 | 05/12/17 | 28 days | 8.275 | 22500 | 450 | 20.00 | 20.09 |
| 2 | 08/11/17 | 05/12/17 | 28 days | 8.310 | 22500 | 452 | 20.09 | |
| 3 | 08/11/17 | 05/12/17 | 28 days | 8.280 | 22500 | 454 | 20.18 | |

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| | |
|---|---|
| Project | Improvements to Road,Drain and Footpath in LKR nagara main road and cross roads in ward No.8 Kodigehalli |
| Client | Bruhat Bangalore Mahanagar Palike |
| Consultant | TEJUS CONSULTANTS |
| Contractor | Sri.Pramodh M/s Karthik Enterprises |
| Location: | LKR Nagar Main Road |
| Grade of concrete: | M20 |
| Size of cube: | 150x150x150 mm |
| Reference IS code: | IS:516-1959 |

| SLNo. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 08/11/17 | 14/11/17 | 7 days | 8.170 | 22500 | 298 | 13.24 | 13.19 |
| 2 | 08/11/17 | 14/11/17 | 7 days | 8.175 | 22500 | 297 | 13.20 | |
| 3 | 08/11/17 | 14/11/17 | 7 days | 8.180 | 22500 | 295 | 13.11 | |

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